



A TASTE OF THE FUTURE

Service manual



COFFEE QUEEN

TQA

Automatic Coffee Brewer

Brewing in thermos
with automatic water filling

S-E-GB

Power saving coffee machines.
Capacity 2,2 litres
Simple installation and easy to use.

Din återförsäljare / Your retail dealer

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Rev. 050920
050506

We congratulate to your choice of a Coffee Queen coffee brewer TQA

Please read through this manual before you take the machine into operation for the first time.

The manual contains important instructions for a safe and proper usage of the machine.

Always keep this manual within reach for the user!

The Coffee brewer is equipped with a key set for automatic water filling.
You can choose between brewing a full or a half pot of coffee.
The key set allows you to adjust water amount in pot and brewing time

Instructions

Coffee machine for automatic water filling.
In the tank there is a float which activates a microswitch when water is filled.
Microswitch activates element unit and brewing starts.
During brewing the membran switch is blinking.
When the tank is empty the current to the boiler is cut off.
The machine is equipped with an overheating protection which is manually restored when the current has been cut.

Some tips for best quality.

Do not change the recommended portion of coffee.

Do not mix freshly brewed coffee with coffee kept warm.

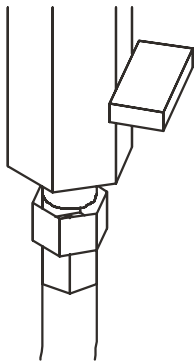
Never fill brewed coffee in the machine.

1. Installation and start.



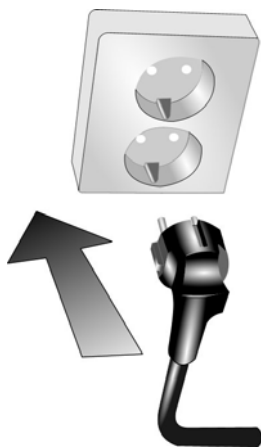
1.1.

Locate the machine on a flat level and waterproof surface.



1.2.

Connect to **cold** water feed with connection tube supplied. Adapt to a cut-off cock.



1.3.

CAUTION!

Connect the plug to a separate wall socket.

240 V, 10 ampere.

2. Rinsing and filling up water system.

2.1.

Do the first brewings with water only . Detta för att rensa och fylla upp systemet

1. Place filter holder without filter and coffee.
2. Lift the lid on thermos and then place thermos under the filter holder.



Note!

Do not make any adjustments of water volume in thermos, after the first brewing with water only!

When first brewing, the machine will filling up water system.
For this, machine will use approx. 4 dl of water.



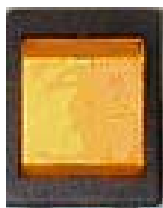
2.2.

Place the thermos under the filter holder.
Turn on switch 1.

Press the button I/I (Full brew) and the water shall start pouring

When brewing is ready , empty the thermos.

Brewing will take about 6 minutes.



3. Brewing of coffee.



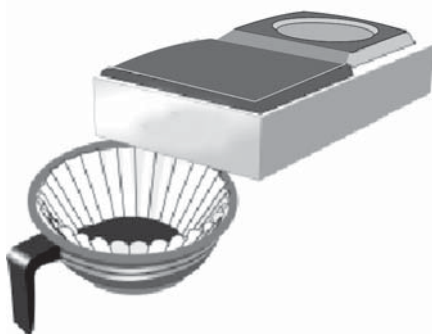
3.1.

Place a 90 mm filter in the filter holder.



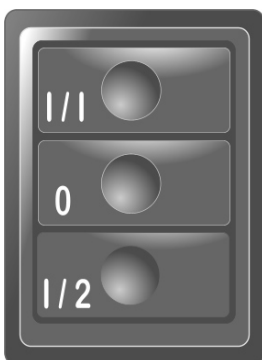
3.2.

Add coffee, restaurant / catering grounded coffee).
Make sure that the coffee is evenly spread.



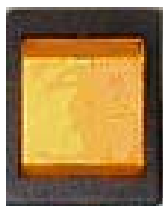
3.3.

Place the filter holder.



3.4.

START BREWING: Turn ON control switch .
Press button 1 / 1 (Full brew) to start automatic
water filling.
During the brewing the button is blinking.



3. Brewing of coffee



3.5.

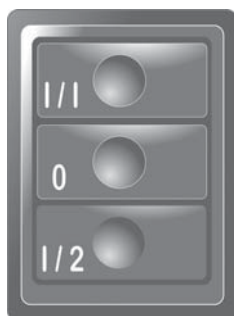
When the brew is ready.
Check the volume in the thermos.

4. Adjusting water amount and brewtime.

4.1.

If the amount of water is wrong: Adjust with the buttons for automatic water filling.

Press the button for 1 / 1 (Full) and 1 / 2 (Half) at same time in 5 seconds. The buzzer beeps twice.



1 / 1 button = Increase 5% 1 beep.

0 = Exit and save settings

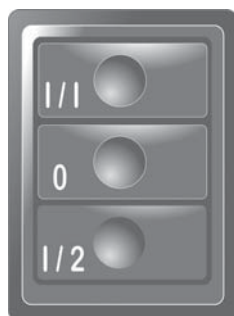
1 / 2 button = Decrease 5% 1 beep.

See page 8. chapter 4.3. (table)

4.2.

If you need to adjust the brewtime: Adjust with the buttons for automatic water filling.

Tryck ned knapparna för 1 / 1 (Full) och 0 samtidigt, i 5 sekunder tills du hör 4 ljudsignaler.



1 / 1 button = Increase 5% 1 beep.

0 = Exit and save settings

1 / 2 button = Decrease 5% 1 beep.

See page 8. chapter 4.4 (table)

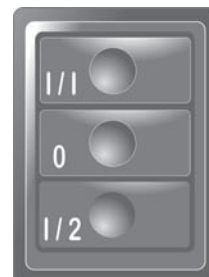
4. Adjustment of water amount and brewtime.

SETTINGS

4.3. Fine tune time for inlet valve:

- Press buttons (Full) and (Half) for 5 seconds. The buzzer beeps twice.
- LED pattern and number of beeps when changing indicates actual setting.
- Increase valve time with "Full brew" and decrease with "Half brew".

Offset	No. of beeps	Led pattern			Note
		½	o	1/1	
-25%	5	X	O	O	Led lights steady
-20%	4	X	O	O	Led flashing
-15%	3	X	O	O	Led flashing
-10%	2	X	O	O	Led flashing
-5%	1	X	O	O	Led flashing
0	0	O	X	O	Led lights steady
5%	1	O	O	X	Led flashing
10%	2	O	O	X	Led flashing
15%	3	O	O	X	Led flashing
20%	4	O	O	X	Led flashing
25%	5	O	O	X	Led lights steady

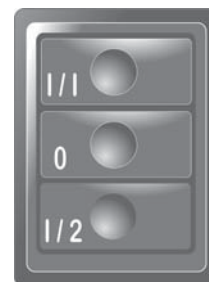


Press "O" to exit and save new settings.

4.4. Fine tune pause time beeper for "Coffee Ready"

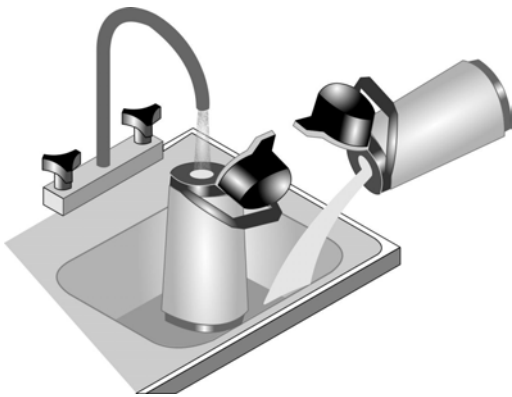
- Press buttons "Full" and "O" for 5 seconds. The buzzer beeps four (4) times.
- LED pattern and number of beeps when changing indicates actual setting.
- Increase pause time with "Full brew" and decrease with "Half brew".

Offset	No. of beeps	Led pattern			Note
		½	o	1/1	
Off	6	X	O	O	Led lights steady
-25%	5	X	O	O	Led lights steady
-20%	4	X	O	O	Led flashing
-15%	3	X	O	O	Led flashing
-10%	2	X	O	O	Led flashing
-5%	1	X	O	O	Led flashing
0	0	O	X	O	Led lights steady
5%	1	O	O	X	Led flashing
10%	2	O	O	X	Led flashing
15%	3	O	O	X	Led flashing
20%	4	O	O	X	Led flashing
25%	5	O	O	X	Led lights steady



Press "O" to exit and save new settings.

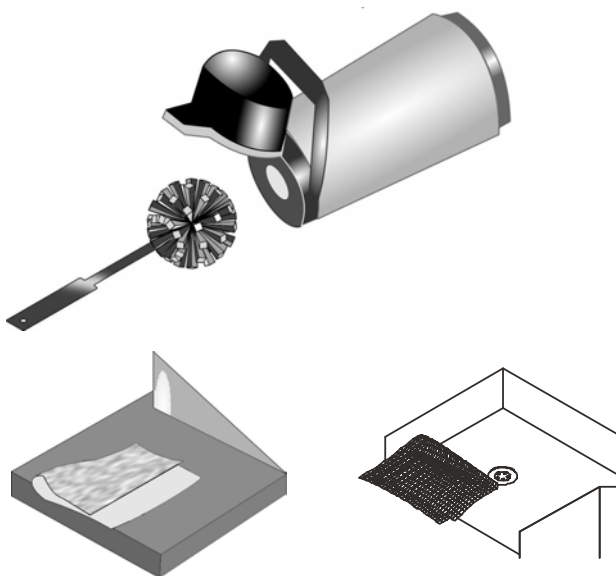
5. Maintenance



NOTE!
Before each brewing.
Rinse the thermos.



CAUTION!
The machine should not be
Submerged in water or Washed in a
dishwasher



Each day.

Wash the thermos pot and the filterholder with
liquid solution for coffee machines.
Clean the spray nozzle and the surrounding area.
Clean the hot plate.

**Use a soft rag and liquid solution that does
not scratch.**



Each week.

Descaling and cleaning.

Pour 50 ml descaling / cleaning solution in a pot and fill it up with cold water.

Take off the spray nozzle and put it into the filterholder.

Pour the mixture in the machine and proceed with a brewing without a filterpaper or coffee.

Rinse by brewing at least 3 times with clean water so that the particles from descaling solution disappear.

Put back the spray nozzle.

Regular descaling/cleaning will ensure optimum brewing performance and a longer life of the machine.

Surface cleaning. Use a soft rag and liquid solution that does not scratch.

Important.

Do not make any alterations to the machine. Such measures may cause personal injury and the machine to fail.

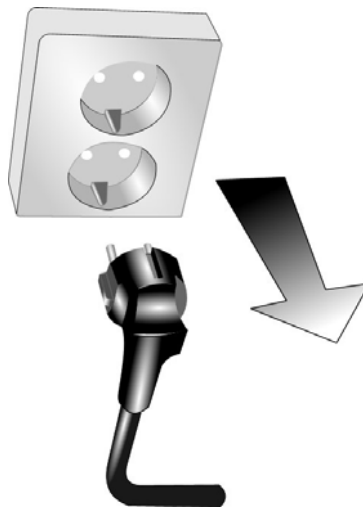
The machine should stand on a flat surface so that it will function properly.

The machine should be placed on a water-proof surface so that any leakage is easily noticeable,

make sure there is no bendage on the connection tube when machine is pushed into its place. The tube connections should be regularly checked. Make sure that no leakage has occurred in connection with installation.

Do not leave the machine unattended while using. Close water connection when not using machine.

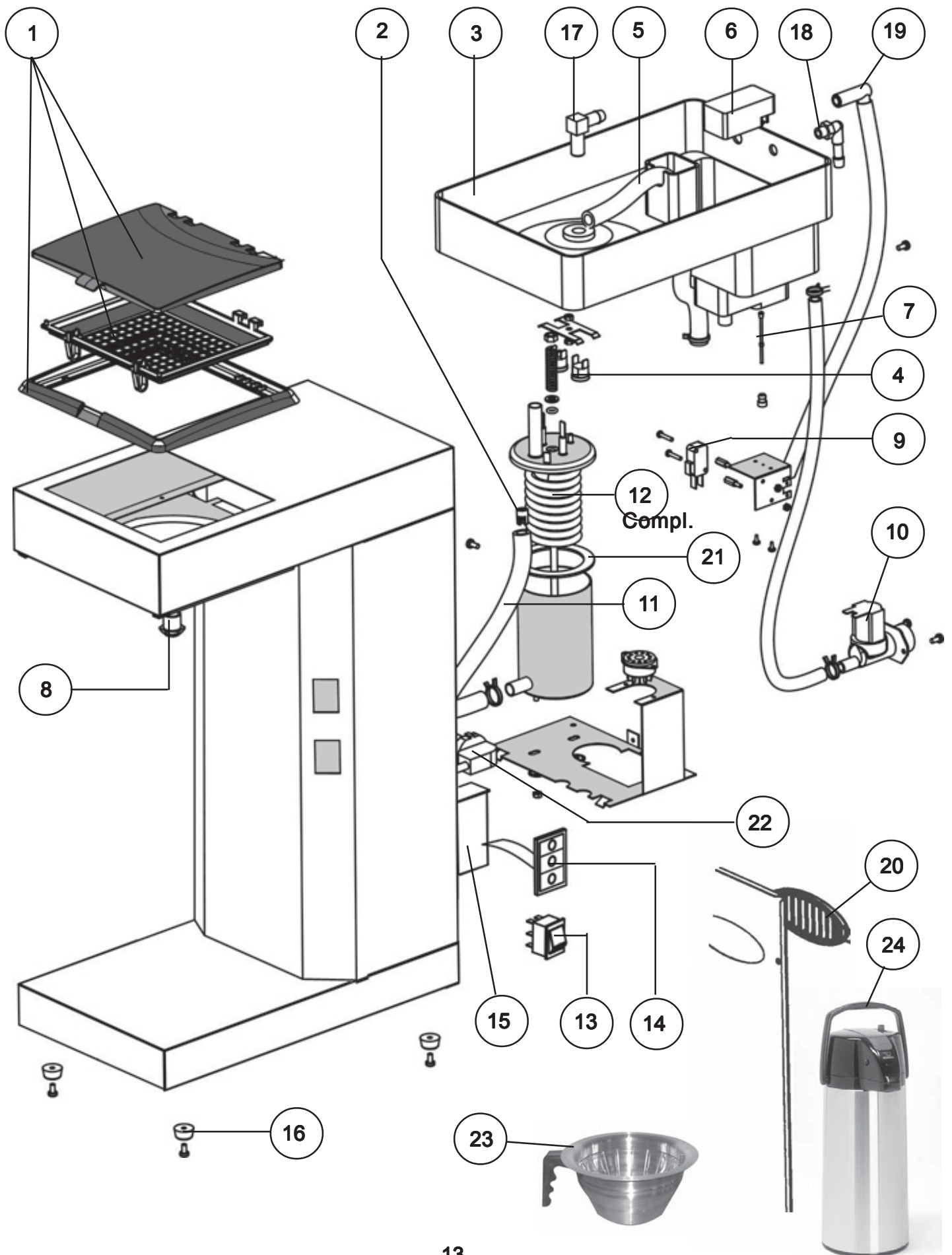
The machine must be disconnected from electrical supply before any maintenance.



8. Possible solutions.

Fault	Possible Solution
A. Switch does not light.	1. Check plug connection to wall socket. 2. Check fuse in plug.
B. Brewer omits excess steam.	1. Machine may require descaling. 2. Spray nozzle may need unblocking. 3. Hose may be bent? 4. Inlet to boiler may be blocked. Descale machine - if boiler still defective - replace.
C. Machine will not brew.	1. Trip-switch has activated - reset with button. For possible fault / solution see B. 2. Check microswitch . 3. Check float . 4. Check connection to boiler . 5. Boiler unit may need replacing
E. The machine does not take in water.	1. Make sure water-inlet is not closed. 2. Make sure the tube is not bent. 3. Check solenoid. 4. Check that the lamp in membran switch is blinking.
F. The machine does not stop taking in water.	1. Dirt in the solenoid .
G. The machine is giving wrong amount of water.	1. Check watertap. 2. Bent tube. 3. Dirt in solenoid . 4. Membran switch wrongly adjusted. Adjust according to installation manual.

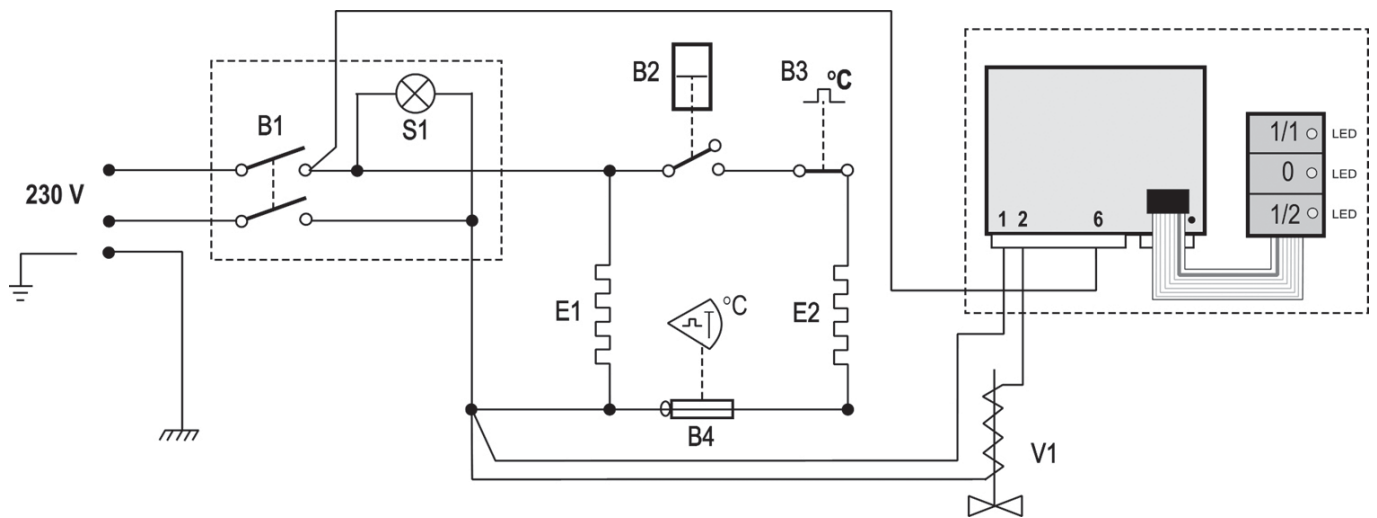
9. Sprängskiss



10. Spare parts list

Description	Article No.	Detail No.in Exploded view.	TQA (Amount per unit)
Cover and strainer	1204041	1	1
Non return valve	120612	2	1
Plastic tank	120418	3	1
Trip switch	160212-03	4	1
Cold water hose	150502	5	1
Float	120402	6	1
Pin	180170	7	1
Spray nozzle	120427	8	1
Microswitch	160821	9	1
Solenoid singel	120620-01	10	1
Hot water hose	150504	11	1
Boiler compl.	120501	12	1
Main switch	160801-04	13	1
Membran switch (silicone)	1603845	14	1
Electronic card	1604090	15	1
Locking pin	120313	-	2
Feet	1203202	16	4
Angel for spray nozzle	180109	17	1
Plastic angel1/8"	180108	18	1
Angel head, breadth drain	180104	19	1
Grating, back	120422	20	1
Silicone gasket	120649-03	21	1
Connection lead	160523	22	1
Connection tube	1505032	not shown	1
Filterholder/stainless	1102016	23	1
Thermos 2,2 litre	1103183	24	1

Electrical diagram TQA



TQA

B1 Main switch/switch for element E1
 B2 Microswitch for element E2
 B3 Aut. High limit for element E2
 B4 Man. High limit for element E2
 S1 Lamp for switch B1

E1 Hot plate element
 E2 Brewing element
 V1 Solenoid for waterfilling

COFFEE QUEEN

TQA,



FOR SERVICE

Please contact your retail dealer

Your retail dealer

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